

20021224.qrp v02_n779.qrl.20021224

Date: Tue, 24 Dec 2002 19:03:05 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2779

QRP-L Digest 2779

Topics covered in this issue include:

- 1) [143022] RE: RockMite Happy Dance
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 2) [143023] Class E
by Steven Weber <kd1jv@moose.ncia.net>
- 3) [143024] I need a mathematician's help
by "w8diz" <w8diz@fpqrp.com>
- 4) [143025] unsubscribe info
by "KU4YP" <ku4yp@earthlink.net>
- 5) [143026] Re: RFI from PC's
by Pete Burbank <plburbank@earthlink.net>
- 6) [143027] Re: RFI from PC's
by David Hinerman <WD8CIV@worldnet.att.net>
- 7) [143028] Jan QST
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
- 8) [143029] Re: I need a mathematician's help
by "Chris Trask" <chistrask@earthlink.net>
- 9) [143030] Re: Class E
by KD5NWA <KD5NWA@cbayona.com>
- 10) [143031] Re: Class E
by KD5NWA <KD5NWA@cbayona.com>
- 11) [143032] Re: RFI from PC's
by "Lee Mairs" <lmairs@direcway.com>
- 12) [143033] Testing Baluns???
by Barry Keating <keating@nd.edu>
- 13) [143034] Re: My latest project
by Bob Liesenfeld <wb0poq@visi.com>
- 14) [143035] Re: On being Politically INcorrect.
by "George, W5YR" <w5yr@att.net>
- 15) [143036] Re: OT: CD-RW Help
by "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>
- 16) [143037] Re: I need a mathematician's help
by "George, W5YR" <w5yr@att.net>
- 17) [143038] Re: My latest project
by "Dave Martin" <k2zu@seanet.com>
- 18) [143039] Lightweight 20M vertical?
by Dennis Ashworth <K7FL@arrl.net>
- 19) [143040] 20M Rockmites spawning...

- by "P. Ermisch" <ermisch@usa.net>
- 20) [143041] Re: On being Politically INcorrect.
by Ted Kell <tedkell@ev1.net>
- 21) [143042] Re: On being Politically INcorrect.
by Ted Kell <tedkell@ev1.net>
- 22) [143043] Re: RockMite Happy Dance
by "Joe Martin" <km5cw@arrl.net>
- 23) [143044] Re: Lightweight 20M vertical?
by Paul Gordon <n6ll@arrl.net>
- 24) [143045] Re:Capacitor power supply
by "Prof. Arnaldo Coro Antich" <inforhc@ip.etecsa.cu>
- 25) [143046] Re: On being Politically INcorrect.
by Tim Groat <tcgroat@earthlink.net>
- 26) [143047] Re: Class E
by Tim Groat <tcgroat@earthlink.net>
- 27) [143048] Re: Testing Baluns???
by "Leon Heller" <leon_heller@hotmail.com>
- 28) [143049] Re: Aluminum Gutters and Downspouts as an Antenna
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 29) [143050] Re: Testing Baluns???
by Ingo Meyer DK3RED <dk3red@gmx.net>
- 30) [143051] J-38 Key
by "Francis Callahan" <colcal@srv.net>
- 31) [143052] Rock-Mites and SKN Practice
by Chuck Carpenter <w5usj@9plus.net>
- 32) [143053] Re: Conductive Paint for RF shielding?
by "Mike Yetsko" <myetsko@insydesw.com>
- 33) [143054] Re: Aluminum Gutters and Downspouts as an Antenna
by "Bill, N4QA" <n4qa@hotmail.com>
- 34) [143055] Re: On being Politically INcorrect.
by "Karl F. Larsen" <k5di@zianet.com>
- 35) [143056] [OP] Need Some N Rocky Mtn, Great Plains RM's
by Kenneth Hoglund <hoglund@wfu.edu>
- 36) [143057] Re: On being Politically INcorrect.
by "Lee Mairs" <lmairs@direcway.com>
- 37) [143058] RE: Lightweight 20M vertical?
by "Larry Gaalaas" <lgaalaas@mn.rr.com>
- 38) [143059] Re: Class E
by "Chris Trask" <chistrask@earthlink.net>
- 39) [143060] RE: Antenna Wire
by Rudy.Pitte@americawest.com
- 40) [143061] St. Louis Key photos and new article
by "K0FF" <K0FF@nemonet.com>
- 41) [143062] Re: On being Politically INcorrect.
by "Mike Yetsko" <myetsko@insydesw.com>
- 42) [143063] Re: Lightweight 20M vertical?
by David Gauding <david.gauding@bbs.galilei.com>
- 43) [143064] Buxcommco and the Rascal interface.

- by "Jess Gypin" <jessmx5@earthlink.net>
- 44) [143065] Re: Jan QST
by Larry Cahoon <lejek@erols.com>
- 45) [143066] Re: Lightweight 20M vertical?
by Macstein@aol.com
- 46) [143067] Santa has arrived with the FT-817
by "John McClain" <digi2@earthlink.net>
- 47) [143068] Re: Jan QST & AC wattmeter
by Jim Giammanco <giamman@rouge.phys.lsu.edu>
- 48) [143069] lightweight 20M vertical
by "Rouse, Mark S." <rouse@mayo.edu>
- 49) [143070] Re: On being Politically INcorrect.
by Ed Tanton <n4xy@earthlink.net>
- 50) [143071] Rock-Mite 20 U3 Voltages
by Chuck Carpenter <w5usj@9plus.net>
- 51) [143072] Re: St. Louis Key photos and new article
by "Joe Martin" <km5cw@arrl.net>
- 52) [143073] Re: Source of Teflon Coated wire for builders
by "KB0VCC" <kb0vcc@adelphia.net>
- 53) [143074] Re: This list is falling apart
by John Payne <paynej1@strato.net>
- 54) [143075] RockMite and "Secret Santa"
by wkhibbert@juno.com
- 55) [143076] Re: lightweight 20M vertical
by William R Colbert <w5xe@juno.com>
- 56) [143077] Items For Sale
by Eric NM5M <res19m7g@verizon.net>
- 57) [143078] Wanted: Rick Campbell T2 SSB Exciter
by Roger Traylor <traylor@ece.orst.edu>
- 58) [143079] Re: This list is falling apart
by "Karl F. Larsen" <k5di@zianet.com>
- 59) [143080] [OT] Not QRP (long) Computer
by Brian Short <bshort4@cox.net>
- 60) [143081] HW 8 Sold
by Eric NM5M <res19m7g@verizon.net>
- 61) [143082] Looking for old QRP article.
by Michael Byrd <m.byrd10@verizon.net>
- 62) [143083] Re: [OT] Not QRP (long) Computer
by Bob Nielsen <nielsen@oz.net>
- 63) [143084] Re: [OT] Not QRP (long) Computer
by Brian Short <bshort4@cox.net>
- 64) [143085] Re: Testing Baluns???
by "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>
- 65) [143086] FS (2) Ten Tec QRP Rigs
by "Kevin Gray" <k8su@adelphia.net>
- 66) [143087] Re: St. Louis Key photos and new article
by "Burnley" <nu0v@arrl.net>
- 67) [143088] Re: Testing Baluns???

by Brian Short <bshort4@cox.net>
68) [143089] RE: Antenna Wire
by Tom Popovic <ki3r@yahoo.com>
69) [143090] Re: Sideswiper Key
by "W7KXB" <w7kxb@cox.net>
70) [143091] Re: Latest Project
by "blinn" <blinn@smgazette.com>
71) [143092] Re: [OT] Not QRP (long) Computer
by Bruce Grubbs <mail@brucegrubbs.com>
72) [143093] Re: Amplifiers - driver stage design
by "Ian Wilson" <ianmwilson@earthlink.net>
73) [143094] Re: This list is falling apart
by IamSF5@aol.com
74) [143095] RE: Sideswiper Key
by "AI2Q" <ai2q@adelphia.net>
75) [143096] Re: [OT] Not QRP (long) Computer
by David Hinerman <WD8CIV@worldnet.att.net>
76) [143097] Sideswiper thread
by Pete Burbank <plburbank@earthlink.net>
77) [143098] RE: Help request
by "Prof. Arnaldo Coro Antich" <inforhc@ip.etcusa.cu>
78) [143099] Re: This list is falling apart
by John Payne <paynej1@strato.net>

Date: Mon, 23 Dec 2002 18:37:44 -0600
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: n5ib@juno.com, "qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [143022] RE: RockMite Happy Dance
Message-ID: <4120021222403744814@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Jim:

I would be happy to sked a R-M to R-M QSO with you some evening. Always hoping for Rock-Mite contacts [g]. When might be a good time to try? Seems like 20 has been dying fairly early lately, but 40 has been pretty good.

73,
--Doc/K0EVZ

> [Original Message]
> From: <n5ib@juno.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

> Date: 12/23/2002 10:39:27 AM
> Subject: RockMite Happy Dance
>
> To: Baton Rouge RockMiter Building Gang
>
> cc: QRP-L
>
> re: first RockMite QSO
>
> Just finished up the first QSO with my RockMite 20. Guess what ? -- with
> another RockMite!
>
> Tom, K4THL, in Florida gave me a 229, but we got the needed info
> exchanged. He was a solid 439 to me. Using a 40 meter horizontal loop
> that averages only about 10 ft high, fed with 450 line, a coax-on-toroid
> 1:1 balun, short coax into the shack, then tuned with an MFJ-971 using
> the coaxial output. I'm getting not quite 300 mW from my stock RM.
>
> Now to fire up QSLMaker and produce an appropriate First QSO card for Tom.
>
> All you Baton Rouge RMers - get yours done and on the air - but do it
> discreetly - this much fun is probably illegal in Louisiana :^))
>
> 72,
> Jim N5IB
>
> PS Baton Rouge RMers - be thinking about whether you want to gather again
> on the 29th. I'll be in touch the day after Christmas.
>
>
> -----
> Sign Up for Juno Platinum Internet Access Today
> Only \$9.95 per month!
> Visit www.juno.com

Date: Mon, 23 Dec 2002 19:57:31 -0500
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [143023] Class E

Message-ID: <3.0.6.32.20021223195731.007aa4b0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Okay, I sat down and played a bit with an IRF510, and there maybe something to this cold fusion stuff after all.

40 M, 13.8V supply, 5.5 watts in, 4.8 watts out, 87% efficient. Seems about the best I can do.....

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Mon, 23 Dec 2002 20:49:50 -0500
From: "w8diz" <w8diz@fpqrp.com>
To: <qrp-1@Lehigh.EDU>
Subject: [143024] I need a mathematician's help
Message-ID: <014b01c2aaee\$bf5ff330\$b8cf1d41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Gang,

I need a mathematician to help me out
just ain't got the neurons firing tonight...

attached are 2 GIFs showing 4 formulae

I need to calculate "K" for all 4 of them.
Anybody out there that can help?

<http://65.29.207.184:3737/PI.gif>
<http://65.29.207.184:3737/t.gif>

BTW, this is so that I can calculate the dB loss in
T-attenuators and PI-Attenuators
based on known in/out Z and resistance values

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W

FP#-1 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 HIqrp-400
http://kitsandparts.com

Date: Mon, 23 Dec 2002 20:22:40 -0500
From: "KU4YP" <ku4yp@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143025] unsubscribe info
Message-ID: <E18Qdsy-0003zJ-00@mallard.mail.pas.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

hello,

can someone give me the unsubscribe info for this list, please?

direct email will be fine.

73 mike prevatt ku4yp

Date: Mon, 23 Dec 2002 20:53:44 -0500
From: Pete Burbank <plburbank@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [143026] Re: RFI from PC's
Message-ID: <5.0.2.1.0.20021223200617.00a26da0@Earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 04:49 PM 12/23/2002, James Reid wrote:

>Well, I've got it. RFI that is. I've got a PC clone and I've tried
>ferrites on all the cables with no improvement. With an earlier computer
>(Apple II plus) I found that powering down the monitor helped with the RFI
>problem but then I couldn't see what was going on.

>

> I made up a coax sniffer consisting of a BNC connector on one end and a
>small loop on the other. This led to the ferrite treatment on all cables.

>

>

> The Computer tower has a metal wrap-around case but the front panel has

>a lot of plastic in it. Any suggestions or experiences would be
>appreciated.

PC RFI can be a real nightmare. My experience has been that monitor junk is the most severe due to display area, enclosure, proximity etc. I have seen medical types juggle grounds, filters etc to clean things up with varying degrees of success. This includes aluminium wrap foil.

In my own QTH the problem was cured on the HF rig by shielding on the receive end by installing hardline feeder which seems much more effective than braided coax. The 6M rig is the next hardline recipient here.

This is my 2 cents and others may have other solutions....my solutions were discovered by lucky accident..

Screen shielding and sprays are available but expensive for monitors so IMHO the best line of attack is on the receive end. After that there are other options such as proximity, separate supply and/or grounding.

Antenna type may also be a factor. My loop is much less susceptible than my vertical.

I'm sure that some of this sounds a bit experimental but that is the name of the game without esoteric knowledge and test equipment.

Let us know what you find out....even failed experiments are knowledge.

73

Pete NV4V

PS for full moon types , these curved claws are great for doing surface mount stuff!

Date: Mon, 23 Dec 2002 21:10:18 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [143027] Re: RFI from PC's
Message-ID: <5.1.1.6.1.20021223210707.00b2bad8@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Jim,

Monitors are notorious noise generators. Did you try a ferrite at the monitor end of the video cable? Also, if you can arrange to plug the

computer into a different power circuit (different breaker) than the radio gear, perhaps that will help cut down on noise conducted through the power leads.

Dave

At 04:49 PM 12/23/2002 -0500, you wrote:

>Well, I've got it. RFI that is. I've got a PC clone and I've tried
>ferrites on all the cables with no improvement. With an earlier computer
>(Apple II plus) I found that powering down the monitor helped with the RFI
>problem but then I couldn't see what was going on.

>

> I made up a coax sniffer consisting of a BNC connector on one end and a
>small loop on the other. This led to the ferrite treatment on all cables.

>

>

> The Computer tower has a metal wrap-around case but the front panel has
>a lot of plastic in it. Any suggestions or experiences would be
>appreciated.

>

>

>Jim, KD3S

"An optimist says the glass is half full. A pessimist says the glass is
half empty. An engineer says you could have used a smaller glass."

Dave Hinerman
WD8CIV@att.net

Date: Mon, 23 Dec 2002 18:14:18 -0800
From: "Chuck Adams, K7QO" <k7qo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [143028] Jan QST
Message-ID: <5.1.1.6.0.20021223180714.00b2ebe0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

I just got the January 2003 issue today from the ARRL. Lot's of QRP stuff again.

Two things that I have yet to see mentioned on QRP-L.

One: the ad on page 60 in the lower left. I'd been searching for months in the popular electronics stores for something like this to measure power consumption for all the stuff in the workshop and the computers and the TenTec power supplies with the Corsair and the Argonaut V. The item is an A/C power meter and the cost is \$49.95. I called them and it will be about 10 days before they are in stock again. A popular item with the hams. This is the first item I've seen that did what I wanted, but there may be other commercial ones available that I do not know about.

Two: again an ad, but this time on the inside back cover. This is an ad for the Yaesu FT-897, but what about the Vibroplex Code Warrior in the lower right hand side? I thought there were only 2 or 3 of these puppies in existence. I bopped over to the Vibroplex page and find no mention of the gold plated critter any where. Any inside information available? Money is no object after I win the Powerball on Wednesday. :-)

FYI

Chuck Adams, K7QO

Moving to Arizona? ---- Please bring your own water.

Date: Mon, 23 Dec 2002 19:23:58 -0700
From: "Chris Trask" <chrisrask@earthlink.net>
To: <w8diz@fpqrp.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143029] Re: I need a mathematician's help
Message-ID: <027201c2aaf3\$849dbca0\$39b33b41@ctrask>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

For both cases,

$$\text{dB} = 20 \log K$$

$$K = 10^{(\text{dB}/20)}$$

High Performance Mixers and Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer

P.O. Box 25240

IEEE Member #40274515

<http://www.home.earthlink.net/~christrask>

```
> Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
```

> FP#-1 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 HIqrp-400
> <http://kitsandparts.com>
>
>
>
>

Date: Mon, 23 Dec 2002 20:16:19 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: kd1jv@moose.ncia.net,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [143030] Re: Class E
Message-ID: <5.2.0.9.0.20021223195533.00a9a7c0@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

If you put the whole circuit inside a pickle jar then you will get 103 % efficiency due to cold pickly fusion. On a more serious note, can you try it at a couple of frequencies such as the bottom of the band and the top of the novice segment and see what variations in efficiency you get? 87% efficiency is pretty darn good, on a battery operated field rig it would sure make your battery last longer. I have seen circuits described that have 97% efficiency but they had very high speed transistors and were driven by a square wave, not as practical from a cost point.

Right now I'm laid off so I have time to play with ham radio stuff, but because I recently moved, most of my stuff is packed away and I have no idea when most of my parts are, tomorrow I'm spend most of the day unpacking boxes from the garage, I want to try one of these puppies soon.

At 06:57 PM 12/23/2002, Steven Weber wrote:

>Okay, I sat down and played a bit with an IRF510, and there maybe something
>to this cold fusion stuff after all.
>
>40 M, 13.8V supply, 5.5 watts in, 4.8 watts out, 87% efficient. Seems about
>the best I can do.....
>
>
>72,
>Steve, KD1JV
>"Melt Solder"
>White Mountains of New Hampshire
><http://www.qsl.net/kd1jv/>

Cecil
KD5NWA

Date: Mon, 23 Dec 2002 20:28:21 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: kd1jv@moose.ncia.net,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143031] Re: Class E
Message-ID: <5.2.0.9.0.20021223202312.00a83c30@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

By the way, the higher the voltage you apply to the transistor the higher the efficiency, the saturation voltage of the transistor becomes a smaller fraction of the supply power, also you need less current through the transistor which helps lower the saturation voltage. Of course from a practical point how many of us would like to carry three or four batteries backpacking just so we could get a couple % increased efficiency.

At 06:57 PM 12/23/2002, Steven Weber wrote:
>Okay, I sat down and played a bit with an IRF510, and there maybe something
>to this cold fusion stuff after all.
>
>40 M, 13.8V supply, 5.5 watts in, 4.8 watts out, 87% efficient. Seems about
>the best I can do.....
>
>
>72,
>Steve, KD1JV
>"Melt Solder"
>White Mountains of New Hampshire
><http://www.qsl.net/kd1jv/>

Cecil
KD5NWA

Date: Mon, 23 Dec 2002 21:36:42 -0500
From: "Lee Mairs" <lmairs@direcway.com>
To: "qrp1" <qrp-l@Lehigh.EDU>
Subject: [143032] Re: RFI from PC's
Message-ID: <002201c2aaf5\$4db6f2e0\$3b6d020a@boomer>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I had luck sticking copper foil tape along the inside of the plastic case,
and then tying them together and to ground. YMMV.

73 de Lee
KM4YY

----- Original Message -----

From: "Pete Burbank" <plburbank@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 8:53 PM
Subject: Re: RFI from PC's

> At 04:49 PM 12/23/2002, James Reid wrote:
> >Well, I've got it. RFI that is. I've got a PC clone and I've tried
> >ferrites on all the cables with no improvement. With an earlier computer
> >(Apple II plus) I found that powering down the monitor helped with the
RFI
> >problem but then I couldn't see what was going on.
> >

Date: Mon, 23 Dec 2002 22:21:58 -0500
From: Barry Keating <keating@nd.edu>
To: qrp-1@Lehigh.EDU
Subject: [143033] Testing Baluns???
Message-ID: <3E0869F5@webmail.nd.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: 7bit

I have two old 1:1 baluns.

How can I test them to insure they are working properly? I can't afford to
lose any watts!

Thanks,

Barry WD4MSM

Barry P. Keating

Jesse H. Jones Professor
Department of Finance and Business Economics
226 Mendoza College of Business
University of Notre Dame
Notre Dame, Indiana 46556

Voice: 574-631-9127
Fax: 574-631-5255
E-Mail: barry.p.keating.1@nd.edu

Date: Mon, 23 Dec 2002 22:02:00 -0600
From: Bob Liesenfeld <wb0poq@visi.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [143034] Re: My latest project
Message-ID: <3E07DC38.1E112823@visi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi again,

A couple of people have expressed some interest in my regenerative
amp followed by an infinite impedance detector. If you want a copy of
the schematic, post me and I'll send it as an attachment.

72
Bob WB0POQ

Date: Mon, 23 Dec 2002 22:08:46 -0600
From: "George, W5YR" <w5yr@att.net>
To: <tedkell@ev1.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143035] Re: On being Politically INcorrect.
Message-ID: <003901c2ab02\$2855ef80\$0201a8c0@fairviewtx.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Ted, I am talking off the top of my head here, since I haven't tried
this, but I would seriously doubt that it is a good idea to parallel
those batteries for charging or any other purpose. Unless the
batteries are well nigh identical in a number of critical respects,

efforts to charge them in parallel or draw load current in parallel can result in one or more of the batteries taking all the load to the detriment of the others.

A much more conservative approach to ensure the same current (load or charging) in each cell of each battery is to connect the batteries in series. This may not be the terminal voltage you need for load purposes, but it might be the better way to connect them for charging. The inherent danger, especially with NiCd batteries is that some cells may take on a polarity reversal. This, however, is quite unlikely, in my opinion, to happen with any of the lead/acid chemistries.

Now, the really safe way to do it with no danger to the batteries and no need for additional chargers is simply to charge the batteries one at a time from the same charger. That requires some usage scheduling but if that can be accomplished you can keep your batteries charged with no added risk.

I vote strongly for the last approach. I would try the second approach if there were some reason that all three batteries had to be recharged at the same time. I would never think of using the first approach.

I hope that was nice enough to allow me to wish you the best for the coming year!

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

In the 57th year and it just keeps getting better!

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #3235

----- Original Message -----

From: "Ted Kell" <tedkell@ev1.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Monday, December 23, 2002 3:33 PM

Subject: On being Politically INcorrect.

> I apologise for wasting the bandwidth for this post and of the time of the senior members of this group, but I really feel I

> should post at least once a year to maintain my membership here.

Perhaps some of the more ignorant, but more

> knowlegable than I, will respond in some reasonable fashion.

>

> After working on my LINUX system configuration, trying to integrate my program written in (take your choice) Pascal,

> Fortran, APL, C, or maybe COBOL that takes that obscure digital code know as CW and convert it into a human

> readable form, I have a question. NO, I have NOT read the F manual.
As a sidenote, for those that think otherwise, F
> does NOT stand for full. Nor, for that matter, have I read the
whole of the ARRL manual looking for an answer, of
> which it has many, but perhaps not the one I am interested in.
>
> THERE, that should insult and alienate most of you, If you are
among that multitude, go away. Perhaps the remainder
> will consider my question and perhaps enlighten me.
>
> I have three 12V 3.2 AH gelcells. Building three chargers would
seem to be a bit of a pain. I got to thinking something
> I do infrequently and not well, that perhaps I could hook the three
gelcells in parallel and charge them all together.
> Would this be a good or bad idea? How about using them that way,
creating a 9.6 AH battery?
>
> I will look for some "nice" answers in the days to come.
>
> This IS the holiday season, so it is appropriate to wish all the
readers of this list a happy Christmas and a prosperous
> year to come, including many QRP DX contacts.
>
> 71
> (That is 72 for the list members like myself that aren't quite with
it.)
>
>
> Ted
>
> N3Ted
> Extra-Lite
>
>
>
>

Date: Mon, 23 Dec 2002 23:23:49 -0500
From: "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>
To: sjolin@swbell.net
Cc: qrp-l@Lehigh.EDU
Subject: [143036] Re: OT: CD-RW Help
Message-ID: <0F1C15596F.8F6F4110-0N85256C98.00717070-85256C99.00182593@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dave,

I don't believe anyone mentioned you can download the "direct CD" driver needed to read a CD-RW. Look for the "UDF Reader" software:

http://www.roxio.com/en/support/roxio_support/software_updates.jhtml
at the bottom of this page. Requires a supported multi-read CD drive.

73,

Steve

aa8af

<sjolin@swbell.net>

Sent by: owner-qrp-1@Lehigh.EDU

12/21/2002 07:58 PM

Please respond to sjolin

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

cc:

Subject: OT: CD-RW Help

Help! I have a CD-RW drive that I have no trouble writing or reading CDs with on my desktop machine. However when I insert these in my IBM thinkpad laptop, the CD can not be read unless recorded in CD-R format, not CD-RW. The computer acts as though the CD and the Drive D is not there. However, whenever I insert a commercially generated CD or a CD formatted as CD-R, it is perfectly readable and works.

I believe I have two ways of generating CD's with my computer. One is DirectCD which I can create by sending files to drive D with my right mouse click and then burn the CD. The other is using Roxio Easy CD Creator V. Neither has resulted in anything that I can transfer from one machine to another. Am I missing something? If there is a way to read CD-RW formatted CD on non CD-RW drive let me know.

Im using Windows XP on the desktop and Windows 98 on the laptop. Please no switch to Linux recommendations. It's not going to happen.

Thanks in advance.

Merry Christmas

de Dave, N0IT

Date: Mon, 23 Dec 2002 22:24:51 -0600
From: "George, W5YR" <w5yr@att.net>
To: <w8diz@fpqrp.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143037] Re: I need a mathematician's help
Message-ID: <008d01c2ab04\$6811a180\$0201a8c0@fairviewtx.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Diz, unless there is something mysterious going on here, all you need to do is some horsework algebra with each equation.

For example, the first one $R1 = Z((K-1)/(K+1))$

when solved for K gives

$$K = (R1/Z+1)/(R1/Z-1)$$

unless is goofed up.

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
In the 57th year and it just keeps getting better!
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #3235

----- Original Message -----
From: "w8diz" <w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 7:49 PM
Subject: I need a mathematician's help

> Hey Gang,

>
> I need a mathematician to help me out
> just ain't got the neurons firing tonight...
>
> attached are 2 GIFs showing 4 formulae
>
> I need to calculate "K" for all 4 of them.
> Anybody out there that can help?
>
> <http://65.29.207.184:3737/PI.gif>
> <http://65.29.207.184:3737/t.gif>
>
> BTW, this is so that I can calculate the dB loss in
> T-attenuators and PI-Attenuators
> based on known in/out Z and resistance values
>
> 72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
> Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
> FP#-1 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 HIqrp-400
> <http://kitsandparts.com>
>
>
>

Date: Mon, 23 Dec 2002 20:42:59 -0800
From: "Dave Martin" <k2zu@seanet.com>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [143038] Re: My latest project
Message-ID: <000301c2ab06\$f01bc360\$f4a32640@davemartin>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bob. I would like to have a look at your schematic. Thanks and 73
Dave K2ZU

Date: Mon, 23 Dec 2002 21:19:16 -0800
From: Dennis Ashworth <K7FL@arrl.net>
To: qrp-1@lehigh.edu
Subject: [143039] Lightweight 20M vertical?
Message-ID: <5.2.0.9.0.20021223210654.00ba53c8@192.168.1.2>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I need to assemble a lightweight vertical for 20M. I envision something that can break into short (~3 foot lengths) for transport on a backpack. One set of guys is not a problem, and will probably be used to top load the antenna thereby minimizing the mast height.

It would be cool if I can find a lightweight aluminum mast where the sections screw together. Ideas?

I'll use the antenna on Mt. Kilimanjaro with an A&A Engineering 5 Watt transceiver, a gel cell, and small solar array.

Thanks

Dennis, K7FL/5H2DA

Date: Mon, 23 Dec 2002 22:51:46 -0700

From: "P. Ermisch" <ermisch@usa.net>

To: <qrp-l@Lehigh.EDU>

Subject: [143040] 20M Rockmites spawning...

Message-ID: <246gLXFzU1984S22.1040709106@uwdvg022.cms.usa.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

In the past week, I worked two Rockmites on 20M at around 0030Z each evening

on my drive home from work. Already have a 40M RM but sounds like I need= to

get a 20M version and mount it in the truck! Both times, very strong sig= s

from K3NZ (PA) and N7SR (MN). Keep 'em coming!

Paul KB0LUR

Date: Mon, 23 Dec 2002 23:40:15 -0600

From: Ted Kell <tedkell@ev1.net>

To: QRP-L <qrp-l@Lehigh.EDU>

Subject: [143041] Re: On being Politically INcorrect.

Message-ID: <09XV041XURFD31QMBYVEVQ1UGBDC4Y.3e07f33f@default>

MIME-Version: 1.0

Content-Type: text/plain; charset="windows-1252"

Thanks for all the comments. I will need to go back to my hole and think about what was said.

Thanks again,

N3Ted

Date: Mon, 23 Dec 2002 23:30:44 -0600
From: Ted Kell <tedkell@ev1.net>
To: Ed Tanton <n4xy@earthlink.net>, QRP-L <qrp-l@Lehigh.EDU>
Subject: [143042] Re: On being Politically INcorrect.
Message-ID: <QPRMUTQ643URLJDBSNPKMLC008ML83.3e07f104@default>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Your'e trying to get me killed. That's what you are doing! :) Let's see...what is the impedance of a .. mf cap at 60 Hz.

Thanks again for the interesting charger.

N3Ted

12/23/02 4:42:42 PM, Ed Tanton <n4xy@earthlink.net> wrote:

>What I do... that you're really not supposed to do0but it has worked fine
>for years and years-is charge mine in series. I use a current-limited,
>straight from the AC line (yeah I know: no transformer at all) rectified to
>DC but that's all, 'charger. It uses AC-rated mylar capacitors to limit the
>current ON THE AC-side to something like 50mA or 120mA (switched)
>regardless of the number of cells in series. The battery terminals are
>seriously higher than ground, but the battery is limited to receiving only
>those coulombs available to it at the described current rate.

>

>1) There are no little kids (if you don't count me) around here for now, to
>get onto the battery terminals which are at a bunch of volts relative to
>ground;

>2) This is surely NOT the recommended way to charge lead-acid/gel
>cell/ni-cad batteries;

>3) But it works so well, I never built another. I have GOOD 12V 4AH
>gel-cells over 10 years old, that have been charged either a) when they had

>been used and hence actively (or perhaps more correctly: INactively) NEEDED
>charging; or b) whenever I noticed them and figured they'd probably
>self-discharged by 'now'.
>4) This has worked fine for everything from 2AH batteries to car batteries,
>and the car-battery-sized gel cell I got at this year's "Atlanta" Hamfest.
>
>Of course... you cannot be in a REAL HURRY. I SUSPECT that it's the
>relatively low current rate... but I don't really CARE if it's somehow
>theoretically incorrect... it has worked fine for years; has not seemed to
>either damage batteries, nor shorten their effective life-as far as you can
>tell when you have several such batteries; and they just keep on truckin'.
>
>Besides Ted, I figured an admission of such terribly-bad battery charge
>management would take some of that heat off that you were worried about.
>
>
>
>73 Ed Tanton N4XY <n4xy@earthlink.net>
>
>Ed Tanton N4XY
>189 Pioneer Trail
>Marietta, GA 30068-3466
>
>website: <http://www.n4xy.com>
>
>All emails <IN> & <OUT> checked by
>Norton AntiVirus with AutoProtect
>
>LM: ARRL QCWA AMSAT & INDEXA;
>SEDXC NCDXA GACW QRP-ARCI
>OK-QRP QRP-L #758 K2 (FT) #00057
>
>
>
>

Date: Mon, 23 Dec 2002 23:41:58 -0600
From: "Joe Martin" <km5cw@arrl.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [143043] Re: RockMite Happy Dance
Message-ID: <024c01c2ab0f\$2d675100\$df43adcf@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Jim,
I just completed my RockMite 20 board this evening, just waiting for some hardware to get here before I fire it up here in Ft.Worth, just south of DFW Airport. I know I'll be ready for SKN now ye haaa. I posted the pic of the finished board front and back on my web site just a while ago. RM20 born on date 12/23/02 9:30PM
73 de KM5CW Joe
FISTS #4217 QRPARCI #11368
GRID-EM13kf
(<http://web.wt.net/~km5cw>)
.. _._. _._.

----- Original Message -----
From: <n5ib@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, December 23, 2002 3:39 PM
Subject: RockMite Happy Dance

> To: Baton Rouge RockMiter Building Gang
>
> cc: QRP-L
>
> re: first RockMite QSO
>
> Just finished up the first QSO with my RockMite 20. Guess what ? -- with
> another RockMite!
>
> Tom, K4THL, in Florida gave me a 229, but we got the needed info
> exchanged. He was a solid 439 to me. Using a 40 meter horizontal loop
> that averages only about 10 ft high, fed with 450 line, a coax-on-toroid
> 1:1 balun, short coax into the shack, then tuned with an MFJ-971 using
> the coaxial output. I'm getting not quite 300 mW from my stock RM.
>
> Now to fire up QSLMaker and produce an appropriate First QSO card for Tom.
>
> All you Baton Rouge RMers - get yours done and on the air - but do it
> discreetly - this much fun is probably illegal in Louisiana :^))
>
> 72,
> Jim N5IB
>
> PS Baton Rouge RMers - be thinking about whether you want to gather again
> on the 29th. I'll be in touch the day after Christmas.

>
>
> -----
> Sign Up for Juno Platinum Internet Access Today
> Only \$9.95 per month!
> Visit www.juno.com

Date: Mon, 23 Dec 2002 22:22:51 -0800
From: Paul Gordon <n6ll@arrl.net>
To: K7FL@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [143044] Re: Lightweight 20M vertical?
Message-ID: <3E07FD3B.71861696@arrl.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

How 'bout shock-corded tent poles?

Dennis Ashworth wrote:

> I need to assemble a lightweight vertical for 20M. I envision something
> that can break into short (~3 foot lengths) for transport on a backpack.

Date: Mon, 23 Dec 2002 19:59:49 -0400
From: "Prof. Arnaldo Coro Antich" <inforhc@ip.etcusa.cu>
To: <n4xy@earthlink.net>
Cc: <qrp-L@LeHigh.edu>
Subject: [143045] Re:Capacitor power supply
Message-ID: <01e001c2ab0d\$b7e8b140\$02000a0a@user>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dear amigo Ed:

Nothing new under the Sun !!!

Hearing aids powered by small nickel cadmium cells have used the capacitor
""voltage dropping"" technique for the charger since the very early days of
solid state hearing aids !

European radio amateurs loved the trick of using a series "capacitive voltage dropping circuit" to provide voltage to the filaments of series connected sweep tubes, PL500 and PL519 that ran from about 27.5 volts per tube... a set of four in series requires about 112 volts AC, but in Europe they use as you know well 220 volts , so they just added a series non polar mylar capacitor to "drop the rest of the voltage"...

My linear using the PL500's was never wired that way, I just wound a 28 volts AC filament transformer and run them from the "right" voltage, as they only take 300 mA filament current...

I wonder what is the capacity that you use for your charger...

A 3 to 4 mfd non polar Mylar capacitor connected to the AC power line via a 3 amp fuse and then connected to a 3 or 5 amp diode will do the job of charging the accumulator (real fancy old timers name for series connected cells of lead acid technology !!!) .

One interesting and unexpected result of using the series capacitor transformerless power system is that the lead acid cells will last a lot longer because the use of " raw AC ", almost mimics what the state of the art ultra sophisticated chargers used by the aviation industry to do the initial charge on the ultra reliable 28 volts DC systems used in aircraft.... Those chargers send out pulsed DC with a shorter polarity reversal pulse in order to "polish" the surface of the plates, making them last a long longer and also helping to make the wear more uniform...

What capacity do you use for your charger ???

My handie talkie charger for the 12 volts nickel cadmium battery (homebrew) has three positions

1 mfd position , feeds 50 miliamps to the battery, and charges the 600 mA hour pack in about 15 hours

3,3 mfd position , feeds about 200 milliams to the battery and really helps during emergencies, when you are charging from a portable generator.

7 mfd position (this are the capacitors used for power factor improvement in the 20 watt fluorescent lamps, and are easily available) will charge a totally flat 12 volts 600 mA pack in about an hour and a half, but you must be really careful using it, as the charge rate is about 350 mA , and the battery pack will certainly overheat if you forget to disconnect it...

In my charger, I use a 1 mfd mylar rated at 250 volts AC, and two identical 7 mfd 250 volts AC capacitors, using one for the 350 mA charge rate, and connecting the two in series to send the rate down to about 175 mA... (nice trick that works well)

Only problem with the series capacitor AC voltage drop technique is what you have already stated that the battery terminals are at AC power line potential above ground SOMETHING TO REMEMBER !!!

73 and DX

Wish you a Merry Christmas and a Happy New Year 2003

YOur friend in Havana

Arnie Coro

C02KK

----- Original Message -----

From: "Ed Tanton" <n4xy@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 6:42 PM
Subject: Re: On being Politically INcorrect.

> What I do... that you're really not supposed to do but it has worked fine
> for years and years-is charge mine in series. I use a current-limited,
> straight from the AC line (yeah I know: no transformer at all) rectified
to
> DC but that's all, 'charger. It uses AC-rated mylar capacitors to limit
the
> current ON THE AC-side to something like 50mA or 120mA (switched)
> regardless of the number of cells in series. The battery terminals are
> seriously higher than ground, but the battery is limited to receiving only
> those coulombs available to it at the described current rate.
>
> 1) There are no little kids (if you don't count me) around here for now,
to
> get onto the battery terminals which are at a bunch of volts relative to
> ground;
> 2) This is surely NOT the recommended way to charge lead-acid/gel
> cell/ni-cad batteries;
> 3) But it works so well, I never built another. I have GOOD 12V 4AH
> gel-cells over 10 years old, that have been charged either a) when they
had
> been used and hence actively (or perhaps more correctly: INactively)
NEEDED
> charging; or b) whenever I noticed them and figured they'd probably
> self-discharged by 'now'.
> 4) This has worked fine for everything from 2AH batteries to car
batteries,
> and the car-battery-sized gel cell I got at this year's "Atlanta" Hamfest.
>
> Of course... you cannot be in a REAL HURRY. I SUSPECT that it's the
> relatively low current rate... but I don't really CARE if it's somehow
> theoretically incorrect... it has worked fine for years; has not seemed to
> either damage batteries, nor shorten their effective life-as far as you
can
> tell when you have several such batteries; and they just keep on truckin'.
>
> Besides Ted, I figured an admission of such terribly-bad battery charge
> management would take some of that heat off that you were worried about.
>
>
>
> 73 Ed Tanton N4XY <n4xy@earthlink.net>
>

> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
>
> website: <http://www.n4xy.com>
>
> All emails <IN> & <OUT> checked by
> Norton AntiVirus with AutoProtect
>
> LM: ARRL QCWA AMSAT & INDEXA;
> SEDXC NCDXA GACW QRP-ARCI
> OK-QRP QRP-L #758 K2 (FT) #00057
>
>
>

Date: Mon, 23 Dec 2002 23:41:17 -0700
From: Tim Groat <tcgroat@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [143046] Re: On being Politically INcorrect.
Message-ID: <5.1.1.6.2.20021223233118.009fc5f0@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Parallel charging and discharging works fine! In fact, you'll probably get better performance than using one battery at a time (better voltage regulation under load). Charge voltage is the same as for a single battery, but charge current can be increased according the number of parallel batteries.

What I would suggest is separate fusing for each of the gel-cells. That way, if one battery has a shorted-cell failure the fuse will blow to eliminate run-away discharge current from the good batteries through the failed one. It also protects you from certain operator errors, such as hooking up one of the batteries backwards.

72 and good luck,
--Tim (KR0U)

>Ted Kell <tedkell@ev1.net>:
><snip>
>I have three 12V 3.2 AH gellcells. Building three chargers would seem to
>be a bit of a pain. I got to thinking something
>I do infrequently and not well, that perhaps I could hook the three
>gellcells in parallel aNnd charge them all together.
>Would this ba a good or bad idea? How about useing them that way,

>creating a 9.6 AH battery?

Date: Mon, 23 Dec 2002 23:51:15 -0700
From: Tim Groat <tcgroat@earthlink.net>
To: qrp-1@lehigh.edu
Subject: [143047] Re: Class E
Message-ID: <5.1.1.6.2.20021223230046.009f84f0@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Classes A, AB, B, and C cover all possible cases where the active device is deliberately operated *in its linear region*. The switching amplifier classes cover cases where the linear region is avoided as much as possible; the ideal case is that the device never enters the linear region ($I_d=0$ whenever $V_{ds}>0$).

The linear classes have a resistive load line (in the ideal textbook examples). The switching classes generally have a reactive load impedance, with the V-I characteristic following a path that deviates greatly from the straight line of linear operation.

The conduction angle comparison makes more sense if you look at degrees of phase where the active device is in the *linear region*, excluding the time when the device is saturated. Then you define A, AB, B and C in the normal way: $a=360$, $360>a>180$, $a=180$, $180>a>0$. The switching classes have $a=0$, at least in the ideal textbook examples. Well designed real world stages approach this ideal very closely, which produces their outstanding efficiency.

--Tim (KROU)

>"Karl F. Larsen" <k5di@zianet.com>:

>

>Hi Chris, the problem is that IF you understand what Class A,B, and C
>are you realize that these three classes cover ALL POSSIBLE cases. If
>You doubt this I can give you several referances available in any good
>University Library.

Date: Tue, 24 Dec 2002 09:58:16 -0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: <keating@nd.edu>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143048] Re: Testing Baluns???
Message-ID: <DAV53luT0KCpSck33EH00009b0e@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Barry Keating" <keating@nd.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, December 24, 2002 3:21 AM
Subject: Testing Baluns???

> I have two old 1:1 baluns.
>
> How can I test them to insure they are working properly? I can't afford to
> lose any watts!

Connect them together, back-to-back, with a suitable load, to a Tx and
measure the input and output power. Should be about the same, if they are
OK.

73, Leon

--

Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Thu, 19 Dec 2002 15:06:51 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: Brian Buydens <brian.buydens@usask.ca>
Subject: [143049] Re: Aluminum Gutters and Downspouts as an Antenna
Message-ID: <Pine.OSF.4.44.0212191505110.68449-100000@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

On Thu, 19 Dec 2002, Mike Yetsko wrote:

> > On Thursday 19 December 2002 11:58, Mike Yetsko wrote:
> >
> > Apparently, if these joints are the slightest bit dodgy, they will

> develop
> > corrosion, act as diodes at RF, and wham...massive harmonic radiation.

Ok. I just got to ask. Could someone build a drainpipe crystal set?

(Please don't flame me, I did read the ARRL handbook and didn't see any references to this.)

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
http://duke.usask.ca/~buydens
VE5RDV

I am a proud citizen of "Soviet Canuckistan"

Date: Tue, 24 Dec 2002 11:02:58 +0100
From: Ingo Meyer DK3RED <dk3red@gmx.net>
To: qrp-1@Lehigh.EDU
Subject: [143050] Re: Testing Baluns???
Message-ID: <5.1.1.6.1.20021224104927.00a2b1e0@pop.gmx.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Barry

>I have two old 1:1 baluns.

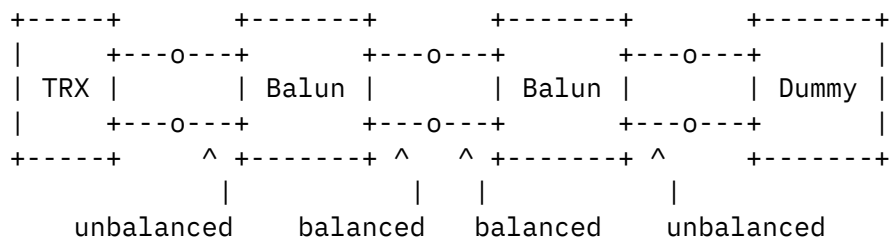
>

>How can I test them to insure they are working properly? I can't afford to
>lose any watts!

1. Measure without the both baluns.

```
+-----+      +-----+
|      +---o---+      |
| TRX  |      | Dummy |
|      +---o---+      |
+-----+      +-----+
```

1. Measure with both baluns.



It's also work with two other baluns like 1:4 or 1:9, BalUn's and UnUn's.

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de <http://www.t-online.de/~dk3red>
DL-QRP-AG #824 <http://www.dl-qrp-ag.de>
QRP ARCI #11295 <http://www.qrparci.org>

Date: Tue, 24 Dec 2002 03:47:17 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <QRP-L@lehigh.edu>
Subject: [143051] J-38 Key
Message-ID: <001501c2ab39\$d4362900\$5bca1341@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The J38 is spoken fore thanks to all who inquired about it and everyone have
a nice Christmas tomorrow 72 Cal KF7ET

Date: Tue, 24 Dec 2002 05:27:03 -0600
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-l@lehigh.edu, Rock-Mite_Group@yahoo.com
Subject: [143052] Rock-Mites and SKN Practice
Message-ID: <3.0.2.32.20021224052703.00884b10@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Been doing a little practice with the old J-38 getting ready for SKN/RMN
next week. My fist is a little rough to say the least but just for grins I

called CQ with the 20 meter R-M yesterday. I got a reply and had a nice short QSO with another QRPer, TJ, K9TJL. Last evening I heard Steve, N7SR, calling CQ and gave him a call. Turned out to be my first R-M to R-M QSO on 20. My wrist was not cooperating so I switched to the paddles for the rest of a nice QSO with Steve. Maybe with some more practice over the next week, my fist will smooth up a bit. Hook up your StKey and give me a call if you hear me. We'll practice together... [g]

Email Alt: w5usj@arrl.net

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPP-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Tue, 24 Dec 2002 07:27:52 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <digi2@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [143053] Re: Conductive Paint for RF shielding?
Message-ID: <002401c2ab47\$e39648e0\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey, I had my Model III almost silent. For VHF at least. HF it was a bit noisy still, but not too bad.

I had put a bit of 'sticky glue on the bottom inside and then layers of foil and saran wrap. I also did the main case and the 'tower' for the drives. Then put some 'screen' over the back of the tray that held the PCBs. For the keyboard, I wrapped it with foil and grounded it to the PCB case.

What was really surprising was my Model II. Sitting right next to the Model III. It was SILENT on HF. I didn't get a peep out of it for HF. But it tore up 2M something fierce.

Mike

Date: Tue, 24 Dec 2002 08:27:44 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>

To: qrp-1@Lehigh.EDU
Subject: [143054] Re: Aluminum Gutters and Downspouts as an Antenna
Message-ID: <BAY1-F185eDKvPEkGhA0001c2e6@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Brian,
It should be doable to make a crystal set out of a corroded
gutter/downspout. Just connect your crystal earphone across the 'diode'
joint. With this arrangement, you should hear any and all strong local ambc
stations.
It may leave you hanging, though, unless said joint is close to the ground
:)
Hey, fellas, how we gonna tune this rig?

73.
Bill, N4QA
<http://www.qsl.net/n4qa/>

MSN 8 helps eliminate e-mail viruses. Get 3 months FREE*.
<http://join.msn.com/?page=features/virus&xAPID=42&PS=47575&PI=7324&DI=7474&SU=>
[http://www.hotmail.msn.com/cgi-bin/](http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_virusprotection_3mf)
[getmsg&HL=1216hotmailtaglines_virusprotection_3mf](http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_virusprotection_3mf)

Date: Tue, 24 Dec 2002 06:50:52 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Ted Kell <tedkell@ev1.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [143055] Re: On being Politically INcorrect.
Message-ID: <Pine.LNX.4.44.0212240639530.1442-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Ted, I'm a RV user and the question comes up all the time about
charging multiple batteries and using same. Turns out the two cases are
seperate.

Have fun charging all your batteries from a single charger with
the batteries in parallel. It will work fine. All RV's with a motor
charge the motor's battery with the RV battery in parallel while in

motion. But when the motor is turned off, a solenoid switch disconnects the batteries.

Use is another matter. Do NOT use the batteries in parallel period. RV users have proven many times every year that using batteries this way does not work well. The batteries loose water very fast and the apparent watt-hour rating for a pair of batteries is less than for just one battery.

On Mon, 23 Dec 2002, Ted Kell wrote:

>
> I have three 12V 3.2 AH gellcells. Building three chargers would seem to be a bit of a pain. I got to thinking something
> I do infrequently and not well, that perhaps I could hook the three gellcells in parallel aNnd charge them all together.
> Would this ba a good or bad idea? How about useing them that way, creating a 9.6 AH battery?
>
> I will look for some "nice" answers in the days to come.
>
> This IS the holiday season, so it is appropriate to wish all the readers of this list a happy Christmas and a prosperous
> year to come, including many QRP DX contacts.
>
> 71
> (That is 72 for the list members like myself that aren't quite with it.)
>
>
> Ted
>
> N3Ted
> Extra-Lite
>
>
>
>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Tue, 24 Dec 2002 09:00:33 -0500
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [143056] [OP] Need Some N Rocky Mtn, Great Plains RM's
Message-ID: <3E086880.958A7338@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang--

We've been busy getting Special Stations lined up for the Rock Mite Flea Fight, and in trying to get relatively good coverage across the US, it appears we don't have any likely candidates for the Dakotas and NE westward to Oregon.

So any Rock-Mite ops who want to spend a leisurely 2 hours on Jan. 4th on either 40m or 20m, please contact me off-list. I'll let you know what we are asking of you (not much) and add your name to our list of Special Stations.

73

Ken KG4FGC (on behalf of the Greater Piedmont QRP Club)

Date: Tue, 24 Dec 2002 09:08:21 -0500
From: "Lee Mairs" <lmairs@direcway.com>
To: "qrp1" <qrp-1@Lehigh.EDU>
Subject: [143057] Re: On being Politically INcorrect.
Message-ID: <008f01c2ab56\$0c31c280\$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have to disagree with Karl. While there is nothing wrong with charging batteries in parallel, there is equally nothing wrong in discharging them in parallel. If batteries are losing water fast, it is because they are being over charged.

My marine and solar customers use 220 AmpHr golf car batteries series-paralleled for different voltages (12, 24, 32 VDC) depending on their inverter. I'm on my 9th year with a 800 AmpHrs bank from the same 8 golf cart batteries. Rapid water consumption doesn't occur because the charging voltage is carefully monitored and when the bank approaches 90% capacity, the voltage is reduced to a 13.6VDC float charge.

73 de Lee, km4yy

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Tuesday, December 24, 2002 8:50 AM

Subject: Re: On being Politically INcorrect.

>
> Hi Ted, I'm a RV user and the question comes up all the time about
> charging multiple batteries and using same. Turns out the two cases are
> seperate.
>
> Have fun charging all your batteries from a single charger with
> the batteries in parallel. It will work fine. All RV's with a motor
> charge the motor's battery with the RV battery in parallel while in
> motion. But when the motor is turned off, a solenoid switch disconnects
> the batteries.
>
> Use is another matter. Do NOT use the batteries in parallel
> period. RV users have proven many times every year that using batteries
> this way does not work well. The batteries loose water very fast and the
> apparent watt-hour rating for a pair of batteries is less than for just
> one battery.
>
>
>
> On Mon, 23 Dec 2002, Ted Kell wrote:
>
> >
> > I have three 12V 3.2 AH gellcells. Building three chargers would seem
> to be a bit of a pain. I got to thinking something
> > I do infrequently and not well, that perhaps I could hook the three
> gellcells in parallel aNnd charge them all together.
> > Would this ba a good or bad idea? How about useing them that way,
> creating a 9.6 AH battery?
> >
> > I will look for some "nice" answers in the days to come.
> >
> > This IS the holiday season, so it is appropriate to wish all the readers
> of this list a happy Christmas and a prosperous
> > year to come, including many QRP DX contacts.
> >
> > 71
> > (That is 72 for the list members like myself that aren't quite with it.)
> >

It would be cool if I can find a lightweight aluminum mast where the sections screw together. Ideas?

I'll use the antenna on Mt. Kilimanjaro with an A&A Engineering 5 Watt transceiver, a gel cell, and small solar array.

Thanks
Dennis, K7FL/5H2DA

Date: Tue, 24 Dec 2002 07:37:15 -0700
From: "Chris Trask" <chistrask@earthlink.net>
To: <tcgroat@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143059] Re: Class E
Message-ID: <003801c2ab59\$f52559e0\$db033b41@ctrask>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

On Monday, December 23, 2002 11:51 PM, Tim Groat wrote:

> Classes A, AB, B, and C cover all possible cases where the active
> device is deliberately operated *in its linear region*. The
> switching amplifier classes cover cases where the linear region
> is avoided as much as possible; the ideal case is that the device
> never enters the linear region ($I_d=0$ whenever $V_{ds}>0$).
>
> The linear classes have a resistive load line (in the ideal textbook
> examples). The switching classes generally have a reactive load
> impedance, with the V-I characteristic following a path that
> deviates greatly from the straight line of linear operation.
>
> The conduction angle comparison makes more sense if you look at
> degrees of phase where the active device is in the *linear region*,
> excluding the time when the device is saturated. Then you define
> A, AB, B and C in the normal way: $a=360$, $360>a>180$, $a=180$, $180>a>0$.
> The switching classes have $a=0$, at least in the ideal textbook
> examples. Well designed real world stages approach this ideal very
> closely, which produces their outstanding efficiency.
>

Well said.

```
.
/      What's all this     \
/ extinct stuff, anyhow? /
\-----'-----'
- ||/
oo\
(--) \
    - .   .   .
    |   |   |
    |   |   |
    |   |   |
    |   |   |
    |   |   |
    c_ ; c_ ; '...'>._
```

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

Email: christrask@earthlink.net
<http://www.home.earthlink.net/~christrask>

----- Original Message -----

```
> --Tim (KR0U)
>
> >"Karl F. Larsen" <k5di@zianet.com>:
> >
> >Hi Chris, the problem is that IF you understand what Class A,B, and C
> >are you realize that these three classes cover ALL POSSIBLE cases. If
> >You doubt this I can give you several referances available in any good
> >University Library.
>
>
>
```

Date: Tue, 24 Dec 2002 08:00:46 -0700
From: Rudy.Pitte@americawest.com
To: qrp-l@Lehigh.EDU
Subject: [143060] RE: Antenna Wire

Message-ID: <4F4D35DD0472B24193598DB30DFD9305EA9FF5@phx-52n-msg.awa.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Don't let the xyl throw out those xmas light strands that don't light.
Lotsa' lengths of small gauge wire. Don't know how many prospective antennas
and DC power cords that've met an untimely demise!

Rudy
"WW7AZ in the valley of the sun"

-----Original Message-----
From: Steven Weber [mailto:kd1jv@moose.ncia.net]
Sent: Saturday, December 21, 2002 12:11 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Antenna Wire

Don't forget your local electrical supply distributor. I bought a 500 ft
spool of #16 stranded "fixture wire" for about \$15.00 at mine. Make a lot
of dipoles or a good sized loop with that much wire:-)

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Tue, 24 Dec 2002 09:25:43 -0600
From: "K0FF" <K0FF@nemonet.com>
To: <qrp-1@lehigh.edu>
Subject: [143061] St. Louis Key photos and new article
Message-ID: <005101c2ab60\$ba747680\$39c249d8@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The basic information about the St.Louis Keys by K0FF can now be seen at
eHam.

A combined eHam article showing the basic ideas can be viewed at:

<http://www.eham.net/articles/4408>

including the little Plexiglas base jobbie that I used to log 340+ countries (no, sorry, not *all* QRP, but a lot were).

The entire series can be seen at my webpage, please feel free to browse around the directory

<http://www.qsl.net/k0ff>

72 and Happy Homebrewing

Geo>K0FF

Member QRPi since 1965

Date: Tue, 24 Dec 2002 10:26:16 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <lmairs@direcway.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143062] Re: On being Politically INcorrect.
Message-ID: <000e01c2ab60\$cef0e8a0\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

From: "Lee Mairs" <lmairs@direcway.com>

I think the issue might be how you USE the batteries. In parallel, the weak battery will tend to discharge all stronger batteries down to it's level as a 'common floor' for the charge. If you have batteries that are in a fairly aggressive 'charge/discharge' routine, a weak battery may not matter. The amount of discharge may not be noticeable.

RV users may tend to 'park' for extended periods of time and NOT be charging batteries. In that case, the energy lost in the discharge to common may be more critical.

Mike

Date: Tue, 24 Dec 2002 09:17:51 -0600

From: David Gauding <david.gauding@bbs.galilei.com>
To: qrp-1@lehigh.edu
Cc: K7FL@arrl.net
Subject: [143063] Re: Lightweight 20M vertical?
Message-ID: <5.1.1.6.0.20021224072523.00a306b0@bbs.galilei.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Dennis,

At 11:21 PM 12/23/02 -0600, you wrote:

>I need to assemble a lightweight vertical for 20M. I envision something
>that can break into short (~3 foot lengths) for transport on a backpack.
>One set of guys is not a problem, and will probably be used to top load the
>antenna thereby minimizing the mast height.

Consider my reply horn-honking time for the OM! <g> Try either the St. Louis Vest Pocket Vertical or the St. Louis Quickie Vertical as reprinted in the September 2000 issue of QRP Homebrewer. The former uses a tapped 1.25" diameter air-wound coil for 10-20M coverage. The latter uses a loaded ribbon cable radiator.

The SLVPV's thing is performance - provided by a homebrew St. Louis Coil as designed by W0NVM. The SLQ's thing is convenience in the field and a much faster build--time. Ease of use aside, I've already worked about 60 countries with the computer cable radiator running 2 watts or less - and I'm a milliwatter and ragchewer at heart!

>It would be cool if I can find a lightweight aluminum mast where the
>sections screw together. Ideas?

Been looking for those myself for over twenty years! <g> W6MMA recently showed us the way by adapting gun cleaning rod sections for his MP-1 family of antennas.

My antenna support uses eleven sections of inert .505 diameter fiberglass tubing (no graphite), which are normally sold at retail to kite hobbyists. The installed height is about 11-1/2'. The sections break down into a compact 2" x 14" package and are very close to bulletproof. The original tubes and base mount are going on five years old and are as good as the day they were built. In addition to uncounted field installations the support spends a lot of time in the back-yard exposed to UV and the weather.

>I'll use the antenna on Mt. Kilimanjaro with an A&A Engineering 5 Watt
>transceiver, a gel cell, and small solar array.

With 5W, that 5H call and on a mountain you will definitely be heard! <g>

Based on personal experience, suggesting an out-board filter for that A&A rig. You may need it for the pile-ups.

The little verticals are free-standing - no guys required and incorporate a special foot-powered mount for easy insertion in hard ground. Both antennas use St. Louis Radials with all conductors cut to the same length - 8.5".

I currently use eight ribbons configured as an eight-wave on 20M, as suggested by KK6MC/5, i.e. Dr. Megacycle. Sixteen or so would be a better choice electrically but this number is a reasonable compromise between performance and convenience. Having said that, either portable vertical installs in five minutes or less in a 17' footprint - anywhere!

I've been running a new 10-40M version of the SLVPV for three plus weeks. The traditional one-hundred contact test log running 1W on 40M is maybe a dozen shy of the mark. I'll start chasing DX on 40M after the first of the year - just to see what is possible at 5W or less with the shortened radiator. DXing on 30M with 1W to this antenna is pretty straightforward based on limited operating experience.

Everything is the exactly the same for the low-band version of this vertical except the radial system is configured for 40M using a dozen ribbons, and the St. Louis Coil returns to the original high-Q design which features a 3.25" diameter mailing-tube form.

I will be running the SLVPV all three days in the upcoming Holiday Milliwatt Contest. Having said that, I'm not looking forward to trotting out to the antenna to change taps in this weather! <g>

Have fun on your trip, Dennis - will be listening for you.

Best regards and Happy Holidays,

de Dave, NF0R nf0r@slacc.com

Date: Tue, 24 Dec 2002 08:03:01 -0700
From: "Jess Gypin" <jessmx5@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
 <FT817@yahooogroups.com>, <FT100@onelist.com>,
Subject: [143064] Buxcommco and the Rascal interface.
Message-ID: <029b01c2ab5d\$8f502e20\$41365742@jgypin>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If anyone has had experience with Buxcommco would you please email me offline and let me know what your experience has been?

Jess AE0CW

Date: Tue, 24 Dec 2002 15:46:12 +0000
From: Larry Cahoon <lejek@erols.com>
To: k7qo@earthlink.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143065] Re: Jan QST
Message-ID: <5.1.0.14.0.20021224154030.0270d378@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>
>One: the ad on page 60 in the lower left. I'd been searching for months
>in the popular electronics stores for something like this to measure power
>consumption for all the stuff in the workshop and the computers and the
>TenTec power supplies with the Corsair and the Argonaut V. The item is
>an A/C power meter and the cost is \$49.95. I called them and it will be
>about 10 days before they are in stock again. A popular item with the hams.
>This is the first item I've seen that did what I wanted, but there may be
>other
>commercial ones available that I do not know about.

I picked up a similar type of item from <http://www.brandelectronics.com/> at three times the cost. Look at the portable unit. I'm not sure of a feature comparison as I could not find the specs on the one in QST at the web site they gave. (<http://www.radioinc.com/>) The Brand Electronics version handles the same power levels it looks like. It also keeps a running total of power used and will even calculate and estimated monthly cost if you tell it the cost per KW. But all in all it may be hard to justify the price difference.

These things are great if you are thinking of going solar for the radio shack as it will give you a good feel of what kind system you need at you present power usage levels.

73 de Larry.....WD3P in MD
<http://www.wd3p.com>

Date: Tue, 24 Dec 2002 11:04:31 EST
From: Macstein@aol.com
To: qrp-l@lehigh.edu
Subject: [143066] Re: Lightweight 20M vertical?
Message-ID: <149.5e59434.2b39df8f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I am having good performance with the PAC-12, and you can make coils for any band. Here is a site with info:

<http://www.njqrp.org/pac-12/>

-MAC-
AF4PS

Date: Tue, 24 Dec 2002 09:20:17 -0700
From: "John McClain" <digi2@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [143067] Santa has arrived with the FT-817
Message-ID: <000f01c2ab68\$596b06d0\$6601a8c0@laptop2>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yep, last night after dark Santa arrived in his big brown truck and dropped an FT-817 down the chimney. The box contained the 817 and all of the options except the TCXO, which I didn't order, and the Touchtone Mic. UPS reports that the mic is on its way and is currently in Oklahoma City. Learning the menus won't be too difficult because they are similar to the menus in the FT-100 that I have in the truck. I can see that I will need to get busy and build me a base for it out of Plexiglas because it is awkward to use on my radio desk.

John
K7SVV
k7svv@arrl.net

K1 #1378, K2 #2569, SST 20, Rock Mite 20, Rock Mite 40, Nor'Easter

Date: Tue, 24 Dec 2002 10:34:35 -0600
From: Jim Giammanco <giamman@rouge.phys.lsu.edu>
To: qrp-l@lehigh.edu
Subject: [143068] Re: Jan QST & AC wattmeter
Message-ID: <3E088C9B.6947E0A6@rouge.phys.lsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The ac wattmeter described at
<<http://www.etaengineering.com/killawatt.html>> is also on as a coupon
special from RadioShack @ \$40

Print the coupon from the webpage at
<<http://www.radioshack.com/Coupons/Coupons.asp>>
then take it to a store

usual disclaimer - no pecuniary interest in any of these, etc... but
I'll probably pick one up and see how it works - displays power factor
and frequency, according to the add. Nice for generator users...

72
Jim N5IB

Date: Tue, 24 Dec 2002 10:43:36 -0600
From: "Rouse, Mark S." <rouse@mayo.edu>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [143069] lightweight 20M vertical
Message-ID: <033E407400B1D511A2840002B33B609D01B1BE37@excsrv13.mayo.edu>
MIME-Version: 1.0
Content-Type: text/plain

Group,

I replied to Dennis personally, but since there is a bit of discussion about the
topic, I will toss this out to the group.

Phil Salas published directions for a HF vertical that breaks down into sections
that screw together, the origianl article was in QST, he has an update at

(<http://www.eham.net/>). He lists ideas for several variations, one of them might appeal to people wanting a packable HF antenna.

I just finished building one, it is a snap. The loading coil from Surplus Sales of Nebraska arrived in less than a week.

73

Mark
KBONKU

Date: Tue, 24 Dec 2002 11:58:12 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [143070] Re: On being Politically INcorrect.
Message-ID: <5.2.0.9.2.20021224115608.01fcbc38@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I never can seem to remember the value... I always have to look it up in my notes, or calculate it... but it does work VERY well... and produces a minimum of heat. I have it in an all-plastic minibox-and even used an all-plastic switch for the low-high switch. Added a 200 or 500mA meter, and ever since have been quite pleased. I've even charged my K2 battery (separately). But if there were children anywhere around, I simply would not use it. They'll get into anything, anywhere, sooner or later, and the risk is simply too high.

Season's Greeting Ted! Et al !!!

P.S. If you're at all interested, I'll check that cap value.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI

OK-QRP QRP-L #758 K2 (FT) #00057

Date: Tue, 24 Dec 2002 11:23:55 -0600
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-l@lehigh.edu, Rock-Mite_Group@yahoogroups.com
Subject: [143071] Rock-Mite 20 U3 Voltages
Message-ID: <3.0.2.32.20021224112355.00882540@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Measured these on the pins of U3 with my RS DVM just to see what happens when the shift button is pressed. Turns out, and it should, that key down in straight key mode is the same as pressing the shift button.

U3	default	shifted
1	4.74	4.74
2	0	Brief transition then zero
3	0	4.74
4	4.7	0
5	0	0 There will be some side tone "AC" here key down
6	0	0 Dash grounded in straight key mode - Dot keyed
7	4.7	4.7 Pulled low when keyed
8	0	0

An R-M/40 will have higher voltages -- about a half a volt or so. Expect variations with the type of meter used. DVMs generally have high input z -- VOMs are generally low and may load the circuits giving false readings. VOMs with an FET input circuit are better.

Email Alt: w5usj@arrl.net

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPP-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Tue, 24 Dec 2002 11:30:36 -0600
From: "Joe Martin" <km5cw@arrl.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [143072] Re: St. Louis Key photos and new article
Message-ID: <00fc01c2ab72\$2ce323e0\$ec2dbad0@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

thanks for posting the photo's for us,,very nice work indeed, keep em
comming<g>
Happy holidays
73 de KM5CW Joe
FISTS #4217 QRPARCI #11368
GRID-EM13kf
(<http://web.wt.net/~km5cw>)
-.-. -.-. -.-.

----- Original Message -----

From: "K0FF" <K0FF@nemonet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, December 24, 2002 9:25 AM
Subject: St. Louis Key photos and new article

> The basic information about the St.Louis Keys by K0FF can now be seen at
> eHam.
>
> A combined eHam article showing the basic ideas can be viewed at:
> <http://www.eham.net/articles/4408>
> including the little Plexiglas base jobbie that I used to log 340+
countries
> (no, sorry, not *all* QRP, but a lot were).
>
> The entire series can be seen at my webpage, please feel free to browse
> around the directory
>
> <http://www.qsl.net/k0ff>
>
> 72 and Happy Homebrewing
>
> Geo>K0FF
>
> Member QRPi since 1965
>
>

Date: Tue, 24 Dec 2002 12:46:47 -0500
From: "KB0VCC" <kb0vcc@adelphia.net>
To: <qrp-1@Lehigh.EDU>

Subject: [143073] Re: Source of Teflon Coated wire for builders
Message-ID: <000901c2ab74\$6ec1b5e0\$6401a8c0@dalenotebook>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

<http://www.apexjr.com/wire.html>

AWG
Per Ft.
Per 100 Ft.
Colors available

12
\$0.25
\$24.00
white-blue-black-green-brown-grey-red-yellow

WOW! That's a GREAT price! I recently paid \$.98/ft (plus shipping) for similar. Thanks for the URL, Chuck.

72/73 es Happy Holidays to one and all!
Dale

```
=====
Dale Anderson, KB0VCC      In the Mt Washington Valley
QRP-L #91 / CQC #251       Conway, New Hampshire
ARS #234 / FISTS #3172     Grid Sq: FN43kx
QRP-NE #600                http://www.qsl.net/kb0vcc
```

Date: Tue, 24 Dec 2002 13:00:09 -0500
From: John Payne <paynej1@strato.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>,
k5di@zianet.com
Subject: [143074] Re: This list is falling apart
Message-ID: <VSKE07VTQLZ2W62LJFBA593A706SNID.3e08a0a9@john>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Well, Karl, maybe the rat should leave the sinking ship (please?)!

I hereby nominate our boy Karl as a world-class idiot, a promotion from his current status as village idiot.

"The real proof that there is intelligent life in outer space is that they haven't come here."

12/22/02 12:51:34 PM, "Karl F. Larsen" <k5di@zianet.com> wrote:

>
> I asked if anyone could derive the conditions for a Class D and
>E amplifier. I derived the conditions for Class A,B and C. What I got in
>reply were messages like this:
>
>
>Date: Sun, 22 Dec 2002 11:28:29 -0500
>From: Brian Short <bshort4@cox.net>
>To: Karl F. Larsen <k5di@zianet.com>
>Subject: Re: Class E Amp??
>
>Do you have to ask idiotic questions continuously?
>
>Do you have to respond to every single thread?
>
>You need help. I hope you will get it.
>
>On Sunday, December 22, 2002, at 11:33 AM, Karl F. Larsen wrote:
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>just like mine. Glitters but not much else.
>
>--
>
> - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
>
>
>

Date: Tue, 24 Dec 2002 13:05:39 -0500
From: wkhibbert@juno.com
To: qrp-l@lehigh.edu
Subject: [143075] RockMite and "Secret Santa"
Message-ID: <20021224.130540.-481355.0.wkhibbert@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. Keith here in the Depths of the Great Bergen Swamp

I am flabbergasted! (I am NEVER speechless, so flabbergasted will have to do...) I received an Email this weekend informing me that 'Your "Secret Santa" had ordered you a RockMite, and so what band do you want'...

Wow! I just finally worked my first Rock Mite on 20 Meters the other day, and now an unknown benefactor is sending me one!

I'll tell all of you, I have no clue as to who Santa is, it's going to bug me, but I really, really appreciate it. Someday, maybe, I'll find out Santa's identity, but I am not digging for it.

To my "Secret Santa", on this List I am sure, Thank You is not enough to say, but I can't think of anything else to add except a Merry Christmas and Happy Holiday to all!

73, Wm. Keith Hibbert, WB2VUO, TC/WNY ARRL Section
President, Brockport Amateur Radio Klub
"My night light runs more power than my Rig!!!"

Sign Up for Juno Platinum Internet Access Today
Only \$9.95 per month!
Visit www.juno.com

Date: Tue, 24 Dec 2002 11:08:52 -0700
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [143076] Re: lightweight 20M vertical
Message-ID: <20021224.110854.-556045.5.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You might also look at www.fairradio.com for the vehicle or portable type antenna that goes on the AB1244 type sectional mast. The antenna is od painted over copper plated and screws together. numerous sections to make whatever size one wishes. The Fair Radio ad says the mast is self supporting up to 15 feet, so might get away with a quarter wave selfsupported for 20. The bases are several styles - AB15, MP65. For portable operation, the base leaves a lot to be desired (heavy and bulky) but one could make some type of substitute.

73

Ray

So much to absorb, so little sponge!

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M

NARTE-NCT2R QRP-ARCI 5784

El Paso, (FAR WEST) TEXAS

Date: Tue, 24 Dec 2002 13:00:16 -0600
From: Eric NM5M <res19m7g@verizon.net>
To: <qrp-l@Lehigh.EDU>
Subject: [143077] Items For Sale
Message-ID: <20021224190016.GAPW19982.out006.verizon.net@[127.0.0.1]>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Cleaning out the closet :)

Bird 43 Wattmeter, no slugs, in great condition \$150.00

MFJ 432 Voice Keyer Good Condition \$45.00

Heathkit HW 8, Needs work. Physical condition is a 7, works on 20 meters, deaf on 40, 80 and 15 meters. Manual included. \$50.00

Prices include shipping within the USA.

Please respond directly if interested.

Regards

Eric NM5M

Date: Tue, 24 Dec 2002 11:09:57 -0800
From: Roger Traylor <traylor@ece.orst.edu>
To: qrp-1@Lehigh.EDU
Subject: [143078] Wanted: Rick Campbell T2 SSB Exciter
Message-ID: <20021224190957.GB11729@nome00.ECE.ORST.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Gang,

I am interested in getting a Rick Campbell T2 phasing SSB exciter. If you have one you'd like to sell, please contact me directly (traylor@ece.orst.edu). Its OK even if broken, busted, or even unbuilt.

Thanks and Merry Christmas,

Roger Traylor
WB4TPW

Date: Tue, 24 Dec 2002 12:26:56 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: John Payne <paynej1@strato.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [143079] Re: This list is falling apart
Message-ID: <Pine.LNX.4.44.0212241225260.2270-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Merry Christmas John Payne and may 2003 be full of joy for you and yours.

On Tue, 24 Dec 2002, John Payne wrote:

> Well, Karl, maybe the rat should leave the sinking ship (please?)!
>
> I hereby nominate our boy Karl as a world-class idiot, a promotion from his
current status as village idiot.
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> >Date: Sun, 22 Dec 2002 11:28:29 -0500

> >From: Brian Short <bshort4@cox.net>

> >To: Karl F. Larsen <k5di@zianet.com>

> >Subject: Re: Class E Amp??

> >

> >Do you have to ask idiotic questions continuously?

> >

> >Do you have to respond to every single thread?

> >

> >You need help. I hope you will get it.

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> >just like mine. Glitters but not much else.

> >

> >--

> >

> > - Karl Larsen k5di Las Cruces,NM Az ScQRPions -

> >

> >

> >

>

>

>

>

>

>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Tue, 24 Dec 2002 13:34:36 -0500
From: Brian Short <bshort4@cox.net>
To: qrp-1@Lehigh.EDU
Subject: [143080] [OT] Not QRP (long) Computer
Message-ID: <5A8A840C-176E-11D7-B904-00306543B616@cox.net>
Mime-Version: 1.0 (Apple Message framework v548)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

Dear Fellow Radio Amateurs, Misfits, Malcontents, Ne'erDoWells:

This post is off-topic, probably not QRP-related, and quite lengthy, so you are advised to take appropriate measures at this point.

This email has been rated PG-13 by the relevant authorities.

ABSTRACT

How to re-partition hard drive with data in place and without purchasing the obvious commercial product?

INTRODUCTION

Let me begin by wishing everyone a very Merry "Xmas" and a Happy New Year.

Computers now run a plethora of operating systems. Some with which I have personal experience are: Unix Sys V, BSD, VMS, CP/M, DOS, M\$ Windows 3.1, 3.11, 95, 98, NT 4, 2000, PrimeOS, RT-11, MACOS, OS X, and proprietary operating systems on CDC, DEC, Univac, etc.

This and other miraculous accomplishments can be critiqued by utilizing the Uniform Resource Locator (URL) or "link" placed in the signature at the bottom of this work. You are by no means obliged to do so; It is your choice.

It has become common for many personal computers (PCs) to be configured and deployed with more than a single operating system.

This is exactly the intention of this present work.

DISCUSSION

Recently, I moved all of my email reading and web surfing to a new computer (an Apple PowerMac G4 500MHz running OS X Jaguar).

Because of this, my dual processor P-II 300MHz running Windows 2000 is getting far less use.

I still need access to my various Windows applications, but I would like to run Linux part of the time. My plan is to install Red Hat Linux (of which I have numerous versions) in a dual-boot configuration.

I have Linux on other computers, but limited "desk space" requires that I dual-boot. In fact, last summer, my son and I bought 45 computers from ASU Surplus for \$1 each. We made many of these Pentium 133 class systems run Linux. Our garage runneth over.

Unfortunately, when I bought the 40Gb drive in the Win2000 computer on sale and with rebate, I just made one big fat partition. Mea Culpa.

CONCLUSION

I want to repartition a hard drive with data in place to run Windows 2000 and Linux without purchasing Partition Magic (unless I have to).

FUTURE WORK

Discussing all of the relative merits of the available operating systems is beyond the scope of this work. This will be left as an exercise to the reader or the basis for future work.

PROLOGUE

The gang has been queried as to how to repartition a hard disk without removing the critters.

--

See my web page: <http://www.k7on.com>

Date: Tue, 24 Dec 2002 13:50:32 -0600
From: Eric NM5M <res19m7g@verizon.net>
To: <qrp-1@Lehigh.EDU>
Subject: [143081] HW 8 Sold
Message-ID: <20021224195032.KHNF10203.pop017.verizon.net@[127.0.0.1]>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Other items are still available
de NM5M

Date: Tue, 24 Dec 2002 14:58:34 -0500
From: Michael Byrd <m.byrd10@verizon.net>
To: qrp-1@Lehigh.EDU
Subject: [143082] Looking for old QRP article.
Message-ID: <3E08BC6A.91B0B2D5@verizon.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

Good Day,

After the mention about glowplug rigs and the latest article in QST, I want to find an old magazine article. It was about a TX for 40 meters using one tube with dual sections, one oscillator and one PA. It was Xtal controlled and had a micro switch as a key. The author built the TX for portable use as he traveled a lot and operated from motels. It put out about one watt and was self contained with power supply. Also was very small, smaller than a card file. The date was somewhere between late 50's and early 60's and was probably QST. I have done several searches and come up with nothing so far. I don't want to build the TX, but I want a copy of the article. I carried the magazine the article was in all the way through high school and into the Army. I lost it somewhere along the way and haven't been able to find it again. That article was the start of my interest in QRP. I never built the rig, but did go with a 6V6 built from junkbox parts.

I have been using QRP on 40 meters a lot lately. It is a bit tough to work DX, but possible. I have 35 countries worked and several I am trying to find on the internet. With all the special calls issued now, it is difficult to confirm the correct country sometimes. If the others pan out to be separate countries, I will have 40 countries worked. Is DXCC possible with QRP on 40? In my case the answer is no, or not without some change in the antenna. I heard a station this morning from South America running 10 watts to a rhombic. He was S9 here and was working JA's. I still need Oceania for WAC. I have been using a sked with VK4TJ who was nice enough to help out. Conditions haven't been good enough to make US/Australia. It is still possible towards Feb/March for that path.

That's about it from Florida. My best to all.

Mike, AC4UR

Date: Tue, 24 Dec 2002 12:22:56 -0800
From: Bob Nielsen <nielsen@oz.net>
To: Brian Short <bshort4@cox.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [143083] Re: [OT] Not QRP (long) Computer
Message-ID: <20021224202256.GA12702@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Brian,

If your installation Windows 2000 uses FAT or VFAT partitioning, you can use GNU parted to repartition. If it uses NT partitioning, this will not work (I believe newer versions of Partition Magic will do this, however). There are other partitioning tools around, but I am not familiar with them.

Of course, the usual caveats about backing up apply.

Bob, N7XY

On Tue, Dec 24, 2002 at 01:34:36PM -0500, Brian Short wrote:

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>
> This post is off-topic, probably not QRP-related, and quite lengthy,
> so you are advised to take appropriate measures at this point.
>
> This email has been rated PG-13 by the relevant authorities.
>
> ABSTRACT
>
> How to re-partition hard drive with data in place and without purchasing
> the obvious commercial product?
>
> INTRODUCTION
>
> Let me begin by wishing everyone a very Merry "Xmas" and a
> Happy New Year.
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> Computers now run a plethora of operating systems. Some with which
> I have personal experience are: Unix Sys V, BSD, VMS, CP/M, DOS,
> M\$ Windows 3.1, 3.11, 95, 98, NT 4, 2000, PrimeOS, RT-11, MACOS,
> OS X, and proprietary operating systems on CDC, DEC, Univac, etc.
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>
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> See my web page: <http://www.k7on.com>
>

--
Bob Nielsen, N7XY n7xy@n7xy.net
Bainbridge Island, WA
IOTA NA-065, USI WA-028S

Date: Tue, 24 Dec 2002 14:28:16 -0500
From: Brian Short <bshort4@cox.net>
To: qrp-1@Lehigh.EDU
Subject: [143084] Re: [OT] Not QRP (long) Computer
Message-ID: <D9BC7334-1775-11D7-B904-00306543B616@cox.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed
Mime-Version: 1.0 (Apple Message framework v548)
Content-Transfer-Encoding: 7bit

Indeed it is NTFS. (knew I was forgetting something)

On Tuesday, December 24, 2002, at 03:22 PM, Bob Nielsen wrote:

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>
> --
> Bob Nielsen, N7XY n7xy@n7xy.net
> Bainbridge Island, WA
> IOTA NA-065, USI WA-028S
>
>
--
See my web page: <http://www.k7on.com>

Date: Tue, 24 Dec 2002 15:45:48 -0500
From: "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>
To: keating@nd.edu
Cc: qrp-1@Lehigh.EDU
Subject: [143085] Re: Testing Baluns???
Message-ID: <0FA57FA3E0.0A9AEA86-0N85256C99.0052740B-85256C99.00720D2D@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Barry,

Begin with this setup...

transmitter -- swr meter -- dummy load

and transmit. Your SWR should be 1:1 or very nearly so. A watt meter can be substituted, just check the reflected power in watts.

Now, add the balun in the circuit...

transmitter -- swr meter -- balun -- dummy load

Transmit at low power, the SWR should also show pretty close 1:1 if all is AOK.

A different look may be had by wiring as follows:

transmitter -- watt meter -- balun -- watt meter -- dummy load

(Before running this test, check the watt meters by connecting them in line between transmitter and dummy load. [transmitter -- watt meter -- dummy load] They should agree pretty closely to one another (note any differences).)

Now connect up the balun between the watt meters as above. Transmit, noting the power input to the balun and the power output on the dummy load side. This should give you some indication of the power losses in the balun. There will be some, but good baluns will be low loss. This measurement is good for the chosen transmit frequency.

If you have an "antenna analyzer" like the Autek RF-1 or VA-1, or one of the MFJ analyzers you can use the analyzer like....

analyzer -- balun -- dummy load

The analyzer can be manually stepped across a frequency range to note the behavior (change in SWR or Impedance as read out on the analyzer display) as frequency changes.

A problem balun would indicate high SWR in the first test, or a big loss in power in the second test, or with an analyzer high SWR or wild impedance fluctuations.

I hope this helps...

73,

Steve

aa8af

Barry Keating <keating@nd.edu>
Sent by: owner-qrp-1@Lehigh.EDU
12/23/2002 10:21 PM
Please respond to keating

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
cc:
Subject: Testing Baluns???

I have two old 1:1 baluns.

How can I test them to insure they are working properly? I can't afford to
lose any watts!

Thanks,

Barry WD4MSM

Barry P. Keating
Jesse H. Jones Professor
Department of Finance and Business Economics
226 Mendoza College of Business
University of Notre Dame
Notre Dame, Indiana 46556

Voice: 574-631-9127
Fax: 574-631-5255
E-Mail: barry.p.keating.1@nd.edu

Date: Tue, 24 Dec 2002 15:53:37 -0500
From: "Kevin Gray" <k8su@adelphia.net>
To: <qrp-1@Lehigh.EDU>
Subject: [143086] FS (2) Ten Tec QRP Rigs
Message-ID: <OCEPILKFPJMGHKIMLFOCEEFHCHAA.k8su@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Selling (2) 1340 QRP rigs. One is all the way assembled and in very nice cosmetic condition. The builder appears to have done a nice job, but the rig is not working.

The second kit was assembled by a first time assembler and will need some TLC. I found a couple parts missing on this one. A couple small caps or transistors. This is missing a couple of the knobs as well.

Also have a copy of the manual thanks to N7JI (Scott).

If this would be a fun project for someone to get this working please let me know.

73

Kevin

k8su

Date: Tue, 24 Dec 2002 14:56:38 -0600
From: "Burnley" <nu0v@arrl.net>
To: <qrp-l@Lehigh.EDU>
Subject: [143087] Re: St. Louis Key photos and new article
Message-ID: <002101c2ab8e\$f41de1e0\$6401a8c0@mchsi.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Geo,

FB job and outstanding photos! Ok folks, between the St. Louis keys and the paper clip keys that Steve KD1JV and Jerry W0PWE posted, you don't have an excuse to keep your RM (or other QRP rigs) off the air on SK night.

I hope to see you all then! This should be a lot of fun.

72, John NU0V

Date: Tue, 24 Dec 2002 14:56:40 -0500
From: Brian Short <bshort4@cox.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [143088] Re: Testing Baluns???
Message-ID: <D17B9FF6-1779-11D7-B904-00306543B616@cox.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed
Mime-Version: 1.0 (Apple Message framework v548)
Content-Transfer-Encoding: 7bit

My approach in the past when I had questionable (even unknown) baluns was to use my MFJ antenna analyzer and various carbon resistors as loads.

I liked changing the load and watching the effect (eg 4-to-1 or 1-to-1 etc).

(Strictly quick and dirty used while assembling used HF yagis.)

Would a laboratory method employ applying known power to the input and a calorimeter? (to measure "efficiency")

On Tuesday, December 24, 2002, at 03:45 PM, Steve Lawrence wrote:

> Barry,
> Begin with this setup...
> transmitter -- swr meter -- dummy load
> and transmit. Your SWR should be 1:1 or very nearly so. A watt meter
> can
> be substituted, just check the reflected power in watts.
>
> Now, add the balun in the circuit...
> transmitter -- swr meter -- balun -- dummy load
> Transmit at low power, the SWR should also show pretty close 1:1 if
> all is
> AOK.
>
>
>
> A different look may be had by wiring as follows:
> transmitter -- watt meter -- balun -- watt meter -- dummy load
>
> (Before running this test, check the watt meters by connecting them in
> line between transmitter and dummy load. [transmitter -- watt meter --
> dummy load] They should agree pretty closely to one another (note any

> differences).)

>

> Now connect up the balun between the watt meters as above. Transmit,
> noting the power input to the balun and the power output on the dummy
> load
> side. This should give you some indication of the power losses in the
> balun. There will be some, but good baluns will be low loss. This
> measurement is good for the chosen transmit frequency.

>

> If you have an "antenna analyzer" like the Autek RF-1 or VA-1, or one
> of
> the MFJ analyzers you can use the analyzer like....
> analyzer -- balun -- dummy load
> The analyzer can be manually stepped across a frequency range to note
> the
> behavior (change in SWR or Impedance as read out on the analyzer
> display)
> as frequency changes.

>

> A problem balun would indicate high SWR in the first test, or a big
> loss
> in power in the second test, or with an analyzer high SWR or wild
> impedance fluctuations.

>

> I hope this helps...

> 73,
> Steve
> aa8af

>

>

>

>

>

>

>

> Barry Keating <keating@nd.edu>
> Sent by: owner-qrp-1@Lehigh.EDU
> 12/23/2002 10:21 PM
> Please respond to keating

>

>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> cc:
> Subject: Testing Baluns???

>

>

> I have two old 1:1 baluns.

>

> How can I test them to insure they are working properly? I can't
> afford to
>
> lose any watts!
>
> Thanks,
>
> Barry WD4MSM
>
> Barry P. Keating
> Jesse H. Jones Professor
> Department of Finance and Business Economics
> 226 Mendoza College of Business
> University of Notre Dame
> Notre Dame, Indiana 46556
>
> Voice: 574-631-9127
> Fax: 574-631-5255
> E-Mail: barry.p.keating.1@nd.edu
>
>
>
>
>
--
See my web page: <http://www.k7on.com>

Date: Tue, 24 Dec 2002 13:22:12 -0800 (PST)
From: Tom Popovic <ki3r@yahoo.com>
To: Rudy.Pitte@americawest.com,
 Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [143089] RE: Antenna Wire
Message-ID: <20021224212212.65066.qmail@web11207.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Rudy.Pitte@americawest.com wrote:
> Don't let the xyl throw out those xmas light strands
> that don't light.
> Lotsa' lengths of small gauge wire. Don't know how
> many prospective antennas
> and DC power cords that've met an untimely demise!
>
> Rudy

> "WW7AZ

Made my W3EDP out of the green Christmas light wire
...several splices but functional.

Merry Christmas All de KI3R Port Vue Pa nr
Pittsburgh

=====

The common good was the claim and justification of every
tyranny ever established over men. Every major horror of
history was committed in the name of altruistic motive...
Actors change, but the course of the tragedy remains the
same. Ayn Rand 1943

Do you Yahoo!?

Yahoo! Mail Plus - Powerful. Affordable. Sign up now.
<http://mailplus.yahoo.com>

Date: Tue, 24 Dec 2002 14:34:34 -0700
From: "W7KXB" <w7kxb@cox.net>
To: <m.byrd10@verizon.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143090] Re: Sideswiper Key
Message-ID: <006b01c2ab94\$40889e80\$5a6c6244@ph.cox.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Looking for information, construction, operation etc, on a key known as a
Sideswiper. I believe it became operational in the early day's of marine
radio, aboard vessels that navigated the Great Lakes. Is this where the
term "Lake Erie Swing" originated?

Merry Christmas to the group and 72's

KXBill

Date: Tue, 24 Dec 2002 13:41:23 -0800
From: "blinn" <blinn@smgazette.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143091] Re: Latest Project
Message-ID: <009301c2ab95\$35221ca0\$7f70ef42@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

To anyone building Bob's "latest" project, here's some cross reference info for the two transistors shown in the schematic so you won't have to "Look it up".

D201:

2SD2012	2SB1375			
2SD201	2SD217	2SC1051	2SD388A	2SC1030
AD201AH	LM201AH			
AD201AN	LM201AN			
CD201	S1001MS2			
ID201	S1001MS2			

2N4416:

ECG220	3N128	2N4416A	3SK33
ECG452	2N4416A		
2N4416	48-84080F11		
2N4416A	3N128	3SK33	ECG220
3SK33	3N128	2N4416A	ECG220
48-869651	2N4416		
48-84080F11	2N4416		

Looks like a good project for "Manhattan" builders!

(Thanks again Bob)

Regards, WA7TQK

[SMGazette.com E-mail is scanned for viruses by Declude Virus]
[Visit us on the web at SMGazette.com]

Date: Tue, 24 Dec 2002 15:10:40 -0700
From: Bruce Grubbs <mail@brucegrubbs.com>
To: bshort4@cox.net,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [143092] Re: [OT] Not QRP (long) Computer
Message-ID: <E18QxFV-0000Vx-00@flamingo.mail.pas.earthlink.net>
Content-Type: text/plain;
 charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

Brian,
I have long used and highly recommend Partition Magic by Powerquest. Version 7, the one I have, can create, move, and resize FAT, FAT32, NTFS, and Linux Ext2 partitions without affecting the data. Powerquest does of course recommend that you backup all your data before using Partition Magic. I've only once lost data when using PM, and that was because the hard drive failed mechanically during the repartition, which was hardly the fault of PM.

I believe PM 8 can also deal with LInux ext3 partitions.

73
Bruce
N7CEE

Date: Tue, 24 Dec 2002 14:18:39 -0800
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143093] Re: Amplifiers - driver stage design
Message-ID: <000601c2ab9a\$69cdbf40\$0b02a8c0@WorkGroup>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Still looking for help with good references to driver stage design. Sokal mentions the requirements on drivers for various o/p stage characteristics but doesn't give examples of designs that meet these.

--ian

----- Original Message -----
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 3:38 PM
Subject: Amplifiers - driver stage design

> My biggest problem with getting amplifiers working well seems to be in the
> driver stages. For example, getting a 10v pk-pk swing into the sort of
load
> impedance presented by a power MOSFET gate with shunting resistor, etc,
from
> a CMOS digital drive signal. I'd like to keep it broadband if possible,
and
> would like to avoid inductors. I was thinking of a common-base stage with
> gain of 2x with an emitter follower thereafter. How would this be for
> stability?
>
> Anyone have pointers to relevant designs out there?
>
> 73 de ian, k3imw/6
>
>
>

Date: Tue, 24 Dec 2002 17:19:53 EST
From: IamSF5@aol.com
To: qrp-l@lehigh.edu
Cc: k5di@zianet.com
Subject: [143094] Re: This list is falling apart
Message-ID: <37.31cfde9a.2b3a3789@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 12/24/02 2:25:14 PM Eastern Standard Time, k5di@zianet.com
writes:

<<
> Well, Karl, maybe the rat should leave the sinking ship (please?)!
>
> I hereby nominate our boy Karl as a world-class idiot, a promotion from
his current status as village idiot.
>
> "The real proof that there is intelligent life in outer space is that they
haven't come here." >>
Karl,
>From Bob AF2Q,
May you have a very Merry Christmas.
I read the post against you from so called grown Men er I mean Girls.
Notice that they have a big brave mouth behind the monitor.

Maybe it's time to buy a case of net LICE SPRAY and clean the list up of the creeps.

I've learned things from your post but the post against you just support my thoughts about how many A**** H****S there are here and the only time you hear from them is when they have the courage to squeeze out from under their rock.

They can all go to HELL

Take care.

Bob

AF2Q

Date: Tue, 24 Dec 2002 17:20:25 -0500

From: "AI2Q" <ai2q@adelphia.net>

To: <w7kxb@cox.net>,

"'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>

Subject: [143095] RE: Sideswiper Key

Message-ID: <000301c2ab9a\$a926c9c0\$6401a8c0@hq.cmp.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Bill:

I have a few sideswipers here. Would you (or any other list members) like to see JPEGs?

Vy 73, AI2Q, Alex QRP-L #687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of W7KXB

Sent: Tuesday, December 24, 2002 4:35 PM

To: Low Power Amateur Radio Discussion

Subject: Re: Sideswiper Key

Looking for information, construction, operation etc, on a key known as a Sideswiper. I believe it became operational in the early day's of marine radio, aboard vessels that navigated the Great Lakes. Is this where the term "Lake Erie Swing" originated?

Merry Christmas to the group and 72's

KXBill

Date: Tue, 24 Dec 2002 18:00:18 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [143096] Re: [OT] Not QRP (long) Computer
Message-ID: <5.1.1.6.1.20021224172325.00b2cd98@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Brian,

When I installed Slackware Linux I used FIPS, but FIPS doesn't support NTFS.

But a Google search for "fips partition ntfs" turned up what may be a useful discussion on linuxmafia.com:

A summary of NTFS partitioning programs:
<http://www.linuxmafia.com/pipermail/conspire/2002-October/000036.html>

More detail on an (apparently) downloadable product:
<http://www.linuxmafia.com/pipermail/conspire/2002-October/000037.html>

(These are consecutive messages in a thread.)

I haven't verified anything in either message, but it looks like others have encountered the same problem you have. Good luck, penguinista!

Dave

At 01:34 PM 12/24/2002 -0500, you wrote:
>Dear Fellow Radio Amateurs, Misfits, Malcontents, Ne'erDoWells:
>
>This post is off-topic, probably not QRP-related, and quite lengthy,
>so you are advised to take appropriate measures at this point.
>
>This email has been rated PG-13 by the relevant authorities.
>
>ABSTRACT
>
>How to re-partition hard drive with data in place and without purchasing
>the obvious commercial product?
>
>INTRODUCTION
>
>Let me begin by wishing everyone a very Merry "Xmas" and a

>Happy New Year.

>

>Computers now run a plethora of operating systems. Some with which

>I have personal experience are: Unix Sys V, BSD, VMS, CP/M, DOS,

>M\$ Windows 3.1, 3.11, 95, 98, NT 4, 2000, PrimeOS, RT-11, MACOS,

>OS X, and proprietary operating systems on CDC, DEC, Univac, etc.

>

>This and other miraculous accomplishments can be critiqued

>by utilizing the Uniform Resource Locator (URL) or "link" placed

>in the signature at the bottom of this work. You are by no means

>obliged to do so; It is your choice.

>

>It has become common for many personal computers (PCs) to be

>configured and deployed with more than a single operating system.

>

>This is exactly the intention of this present work.

>

>DISCUSSION

>

>Recently, I moved all of my email reading and web surfing to a new

>computer (an Apple PowerMac G4 500MHz running OS X Jaguar).

>Because of this, my dual processor P-II 300MHz running Windows

>2000 is getting far less use.

>

>I still need access to my various Windows applications, but I would

>like to run Linux part of the time. My plan is to install Red Hat Linux

>(of which I have numerous versions) in a dual-boot configuration.

>

>I have Linux on other computers, but limited "desk space" requires

>that I dual-boot. In fact, last summer, my son and I bought 45 computers

>from ASU Surplus for \$1 each. We made many of these Pentium 133

>class systems run Linux. Our garage runneth over.

>

>Unfortunately, when I bought the 40Gb drive in the Win2000 computer

>on sale and with rebate, I just made one big fat partition. Mea Culpa.

>

>CONCLUSION

>

>I want to repartition a hard drive with data in place to run Windows 2000

>and Linux without purchasing Partition Magic (unless I have to).

>

>FUTURE WORK

>

>Discussing all of the relative merits of the available operating systems is

>beyond the scope of this work. This will be left as an exercise to the reader

>or the basis for future work.

>

>PROLOGUE

>
>The gang has been queried as to how to repartition a hard disk without
>removing the critters.
>
>--
>See my web page: <http://www.k7on.com>

"An optimist says the glass is half full. A pessimist says the glass is
half empty. An engineer says you could have used a smaller glass."

Dave Hinerman
WD8CIV@att.net

Date: Tue, 24 Dec 2002 18:01:41 -0500
From: Pete Burbank <plburbank@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [143097] Sideswiper thread
Message-ID: <5.0.2.1.0.20021224175529.00a1b210@Earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

The mention of sideswipers in one post and SKN in another post got my
wheels turning. A sideswiper
category for SKN would be interesting. After all, it is not electronic or
possess a "ditter" like a bug.

Pete
NV4V

Date: Tue, 24 Dec 2002 18:13:25 -0400
From: "Prof. Arnaldo Coro Antich" <inforhc@ip.etecca.cu>
To: <qrp-L@LeHigh.edu>
Subject: [143098] RE: Help request
Message-ID: <003101c2ab9a\$7e3040c0\$02000a0a@user>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dear amigos of QRP L
Merry Christmas and Happy New Year to all.

Got a problem here with another ham's LAPTOP machine Toshiba Satellite 1555CDS. The machine refuses to start up, and it only show on the screen a message that says

Ready for BIOS update, insert disk and press any key ...

Then another time it does start the WINDOWS 98 system, but the keyboard writtes strange characters, then next time you start it, the message about the BIOS update shows up and you can't even turn off the machine ... you have to remove the power supply plug to shut if off !!!

Any ideas of what may be happening ?

It has an AMD K6 380 mHz processor and I can't tell how much RAM so far.

Any help will be most appreciated

write to

coro@enet.cu, my home address.

Thanks in advance for the help..

we may have another QRP station using PSK31 soon if the machine comes back to life !!!

72 and DX

Arnie Coro

C02KK

Often heard on 30 meters CW with

QRP two tube rig running between

2 Watts and 5 Watts

Date: Tue, 24 Dec 2002 18:57:39 -0500

From: John Payne <paynej1@strato.net>

To: qrp-l@lehigh.edu

Cc: iamsf5@aol.com.k5di@zianet.com

Subject: [143099] Re: This list is falling apart

Message-ID: <A674ATRLI4397JDFDZTNKLJKG51MGPM.3e08f473@john>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

You show your self to be even lower than the rest of the Karl-baiters with your well-thought out and sensitive post. At least I did not use the offensive language that you have, because anyone can read this list, including my grandkids. I hope you are satisfied, little man. Be sure you use the netlice spary on yourself first. Your lack of maturity is so obvious you are even below pitiable. If Karl can reply to me direct and wish me a merry Christmas, then he is a much better man than I ever thought, and because of that I will never post against him again. As for you, wash your mouth out with soap! Speaking of big, brave mouths behind the monitor, look at the reflection in your monitor!

73 de John N4FLJ

12/24/02 5:19:53 PM, IamSF5@aol.com wrote:

>In a message dated 12/24/02 2:25:14 PM Eastern Standard Time, k5di@zianet.com
>writes:

>

><<

> > Well, Karl, maybe the rat should leave the sinking ship (please?)!

> >

> > I hereby nominate our boy Karl as a world-class idiot, a promotion from
>his current status as village idiot.

> >

> > "The real proof that there is intelligent life in outer space is that they
>haven't come here." >>

>Karl,

>>From Bob AF2Q,

>May you have a very Merry Christmas.

>I read the post against you from so called grown Men er I mean Girls.

>Notice that they have a big brave mouth behind the monitor.

>Maybe it's time to by a case of net LICE SPRAY and clean the list up of the
>creeps.

>I've learned things from your post but the post against you just support my
>thoughts about how many A**** H****S there are here and the only time you
>hear from them is when they have the courage to squeeze out from under their
>rock.

>They can all go to HELL

>Take care.

>Bob

>AF2Q

>

>

"The real proof that there is intelligent life in outer space is that they
haven't come here."

End of QRP-L Digest 2779

